

FIG. 1A

DPP4 379 E.....GYRHICYFQIDK.....DCTFIITKGTWEVIG.....IEAITSDYLYYISNEYK
DPRP1 473 SKYKRSSGGLPAPSDFKCPIK.....EEIAITSGEWEVIGRHGSNIQVDEVRRLVYFEGTK
DPRP2 464 QGYDWSEPFSPGEDEFKCPPIK.....EEIAITSGEWEVIGRHGSKIWVNEETKLVYFEGTK
DPRP3 394 GR.....GEFHIIAMFLIQSKSEQITVRHETSGNWEVTK.....IAYDETTQKITYELSTE

DPP4 424 GMPGGRNLKYKIQSLDYTKVTCLSCELNPERCQYYSVSFSKEAKYVOLRCSGPGLPFIYTLH
DPRP1 529 DSPLERHHLYVVSYVNPGEVTRLTDRGYSHSCCISQHCDFFNSKYSNQKNP. HCVSEYKLS
DPRP2 520 DPLEHHLYVVSYEAAGEFVRLTTPGEHSCHSCMSQNFDMFMSHYSSVSTP. PCVHMYKLS
DPRP3 445 SSPRGRQLYSASTEGLLNRQCESCNFMKEQCYFDASESPMNQHFLFCCEGPRVEVSLH

DPP4 484 SSVNDKGRLVLEDNSALDKMLQN..VQMPSKKLDFTIILNETKFWYQOMILPPPHFDKSKKYP
DPRP1 588 SPEDDPPTCKTKEFWATILDAGPLPDYTPPEIIFESTIGETLYGMLYKPHDLQPGKKYP
DPRP2 579 GPDDDDPLHKQPREWASMMEAASCPPDYMPPPEIFHTRSDVRLYGMQYKPHALQPGKKHP
DPRP3 505 STDNPACYFILESNMSLKEAILKKKIGKP..EIKILEHIDDYELPLQLSLPQDFMDRNQYA

DPP4 542 LLLDVYAGPCSQKADTVFR..LNWATYILASTENITIVASFDGRGSGYQGDKIMHAINRRIG
DPRP1 648 TVLFVYGGPQVQLVNNRFKGWVYERLNLTASLGYVVVIDNRGSCHRGLKFEGAEKYKMG
DPRP2 639 TVLFVYGGPQVQLVNNSFKGTKYLRNLTASLGYAVVIDGRGSCQRGILFEGALKNOMG
DPRP3 563 LLLIMDEEPEGGQLVTDKFF..IDWDSVLIIDMDNVIIVAREDGRGSGEQQLKILQEIRRREG

DPP4 600 TFEEDQDEEAAROFS.KMGFDNDNKRHAIWGSYGGYVITSMVLGSGSGVFKCGIAVAPVSR
DPRP1 708 QFEEDQDEECLQYLAQKDFIDLDRLVGIHGSYGGYLSLMQRSDFRVAIAGAPVTL
DPRP2 699 QVEEDQDEECLQYVAEKYGFIDLSRVAIHGSYGGELSLMGLTHKPOVFKVAIAGAPVTY
DPRP3 621 SVEVKDQITAVKFLKLPIYIDSKRISIEGKGYGGYIASMILKSDEKTFKCCSVVAPVTD

DPP4 659 WEYYDSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKOVEYLTTHGTADENVHFOQSAQ
DPRP1 768 WTYDGYTERYMGHPDNEQGYYLGSVAMQAEKEPSEPNRLLEHGFIDENVHFAHESI
DPRP2 759 WMAYDGYTERYMDWPNNOHGYEAGSVALHVEKLPNEPNRLLEHGFIDENVHFEHNF
DPRP3 680 LKLYASAFSERYTGMPSKEES..TYQAAASVIEHNVHGLKEENLTHGTADETKVHFOQSAE

DPP4 719 ISKALVDGVVDQAMWYTDEDHGIASSTAHQHIIYTHMSHFIKCGFSLP.....
DPRP1 828 LLESELVRAGKPYDLQTYPOERHSIRVPESEGEHYELHLLHQLQENLGSRIAALKVI.....
DPRP2 819 LVSQDLTRAGKPYQLOTYPERHSIRCPESGEHYEVTLHFLQEYL.....
DPRP3 738 LEKHLIKAGVNYTMQYDPEGVNVSEK.SKYHLYSTILKEFSECLKEEISVLPQEPEEDE

FIG. 1B

Title: NOVEL SERINE PROTEASE GENES RELATED TO DPPIV

Inventors: Steve Qi et al.

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hDPRP1	1	MAAAMETEQLGVEIFETAE CEEN. I ESQDRPKLEPFYVERYSWSQLKLLADTRKYHGYM
mDPRP1	1	MAAAMETEQLGVEIFETAE CEEGNGESQDRPKLEPFYVERYSWSQLKLLADTRKYHGYM
hDPRP1	60	MAKAPHDFMFVKRN DPDGPHSDR YYLAMSGENRENTLFYSEIPKTINRAAVLMLSWKPL
mDPRP1	61	MAKAPHDFMFVKRT DPDRPHSDR YYLAMSGENRENTLFYSEIPKTINRAAVLMLSWKPL
hDPRP1	120	LDLFQATLDYGMYSREEELLRERKRIGTVGIA SYDYHQSGTFLFQAGSGIYH KDGGPQ
mDPRP1	121	LDLFQATLDYGMYSREEELLRERKRIGTVGIA AYDYHPGSGTFLFQAGSGIYH KDGGPH
hDPRP1	180	GFTQQPLRPNLVETSCPNIRMDPKLCPADPDWIAFIHSNDIWSN VTREERR TYVHNE
mDPRP1	181	GFTQQPLRPNLVETSCPNIRMDPKLCPADPDWIAFIHSNDIWSN VTREERR TYVHNE
hDPRP1	240	LANMEED A RASAGVATFVLQEEFDRYSGYWWC PAET TPSGGKILRILYEENDESEVEIIH
mDPRP1	241	LANMEED D RASAGVATFVLQEEFDRYSGYWWC PAERT TPSGGKILRILYEENDESEVEIIH
hDPRP1	300	VTSPMLETRRADSFRYPKTGTANPKVTFKMSEI MT DAEGRI IDVIDKEL MQ PFELFEGV
mDPRP1	301	VTSPMLETRRADSFRYPKTGTANPKVTFKMSEI IV DAAGGI IDVIDKEL M QPFEILFEGV
hDPRP1	360	EYIARAGWTPEGKY AWSILLDRSQTH EQIVLISPELFIPVEDDV MR QRLIESVPDSVTP
mDPRP1	361	EYIARAGWTPEGKH AWSILLDRSQTH EQIVLISPELFIPVEDD AM QRLIESVPDSVTP
hDPRP1	420	LIIYEETTDIWINIHDIFHVFPQ SHED EIEIFIFASECKTGRHLYKITSILKESKYKRSS
mDPRP1	421	LIIYEETTDIWINIHDIFHVFPQ THEDE EIEIFIFASECKTGRHLYKITSILKESKYKRSS
hDPRP1	480	GGLPAPSDFKCPIKEE IA ITSGEWEVLGRHGSNI QV DEVR R LVYFEGTKDSPLEHHLYVV
mDPRP1	481	GGLPAPSDFKCPIKEE IT ITSGEWEVLGRHGSNI WV DE ARK LVYFEGTKDSPLEHHLYVT
hDPRP1	540	SYVNPGEV TR LTDGYSHSCC TS OHCDFFFISKYSNQKNPHCVSLYKLSSPEDDP TCKTKE
mDPRP1	541	SYANPGEV V RLTDGYSHSCC TS RHCDFFFISKYSNQKNPHCVSLYKLSSPEDDP VHKTKE
hDPRP1	600	FWATILDSAGPLPDYTPPE I FSFESTTGFTLYGMLYKPHDLQPGKKYPTVLF I YGGPQVQ
mDPRP1	601	FWATILDSAGPLPDYTPPE I FSFESTTGFTLYGMLYKPHDLQPGKKYPTVLF I YGGPQVQ
hDPRP1	660	LVNNRFKGVKYFRLNTLASL GYVVV VIDNRGSCHRGLK FE GAFKY KM QIE ID DQVEGLQ
mDPRP1	661	LVNNRFKGVKYFRLNTLASL GYVVV VIDNRGSCHRGLK FE GAFKY KM QIE ID DQVEGLQ
hDPRP1	720	YLAS RYDFIDLD DRVGIHGWSYGGYLSLMALMQRS D IFRVAIAGAPVTLW I FYDTGYTERY
mDPRP1	721	YLAS QYDFIDLD DRVGIHGWSYGGYLSLMALMQRS D IFRVAIAGAPVTLW I FYDTGYTERY
hDPRP1	780	MGHPDQNEQGYYLGSVAMQA E KFPSEPNRLLLHGFL D ENVH F AHTS I LLSFLVRAGKPY
mDPRP1	781	MGHPDQNEQGYYLGSVAMQA E KFPSEPNRLLLHGFL D ENVH F AHTS I LLSFLVRAGKPY
hDPRP1	840	DLQIYPQERHSIRVPESGE H YEL H LL H YQENLGSRIAALK V I
mDPRP1	841	DLQIYPQERHSIRVPESGE H YEL H LL H YQENLGSRIAALK V I

FIG. 2

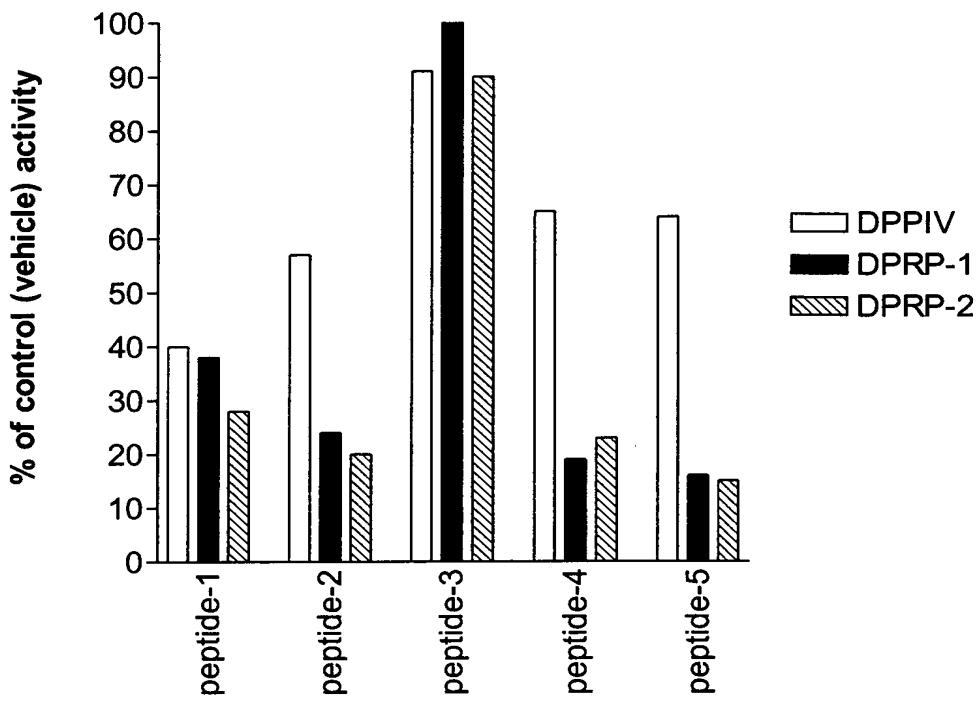


FIG. 3

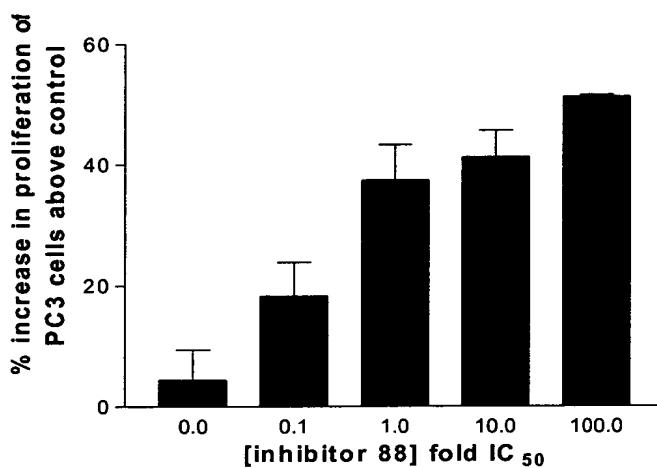


FIG. 4A

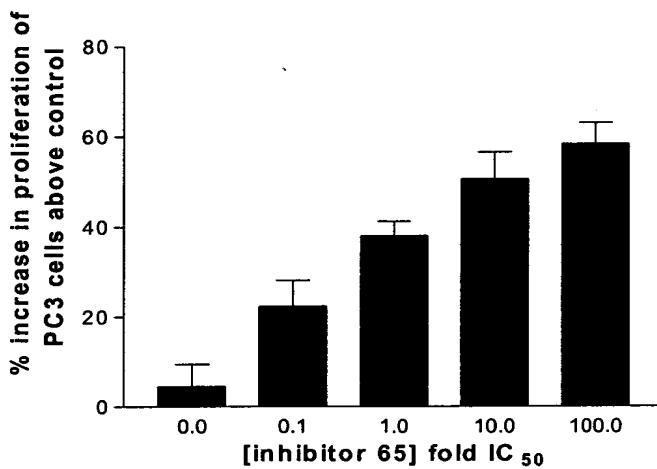


FIG. 4B

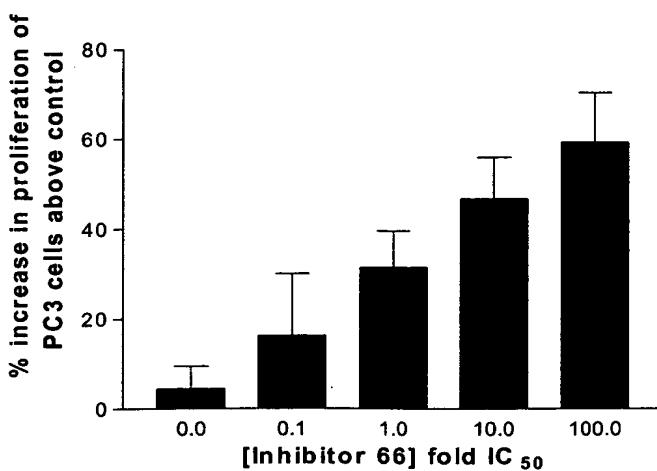


FIG. 4C